Fleet Readiness Centers

Local Engineering Specs / Local Engineering Processes

A Depot Maintenance Approach

Providing Capabilities and Expertise for IUID Compliance

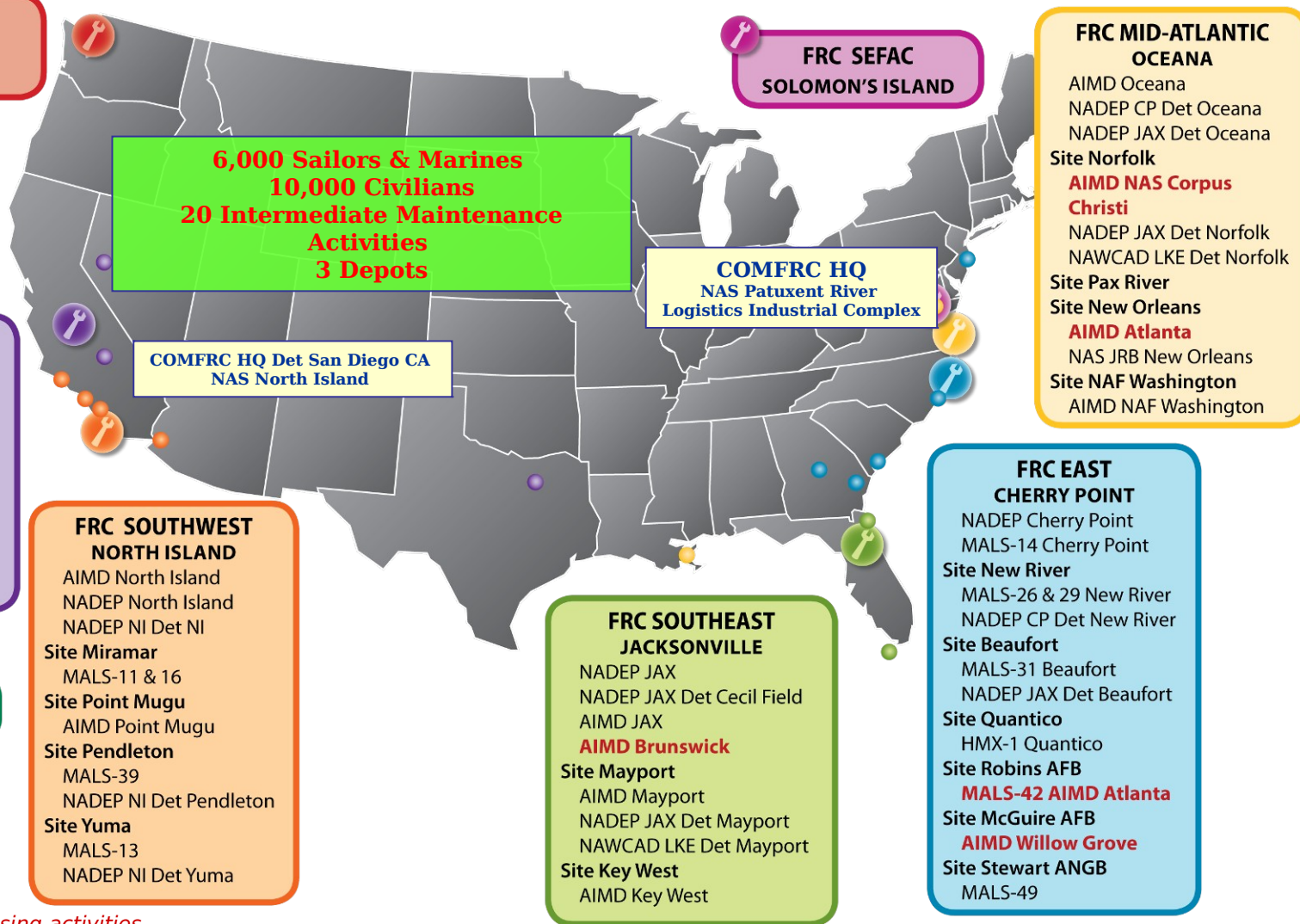**Industrial Business Operations Direction, NAVAIR 6.1.1, FRC Southeast**

FRC Mission

- To produce quality airframes, engines, components, and support equipment, and provide maintenance and production support with logistics and engineering services *to meet Naval Aviation Enterprise (NAE) readiness requirements at improved efficiency and reduced cost.*

- This includes supporting improved business processes and initiatives such as IUID and SIM.

- Taken together, IUID and SIM can provide significant future savings in both time, money, and optimized use of assets.
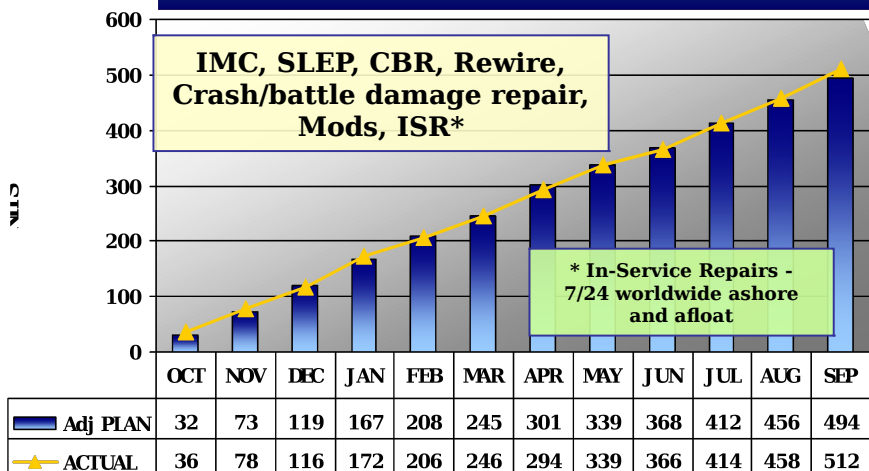
Fleet Readiness Centers Enterprise

6,000 Sailors & Marines
10,000 Civilians
20 Intermediate Maintenance Activities
3 Depots

COMFRC HQ
NAS Patuxent River
Logistics Industrial Complex

COMFRC HQ Det San Diego CA
NAS North Island

FRC NORTHWEST
WHIDBEY ISLAND
AIMD Whidbey Island

FRC SEFAC
SOLOMON'S ISLAND

FRC MID-ATLANTIC
OCEANA
AIMD Oceana
NADEP CP Det Oceana
NADEP JAX Det Oceana
Site Norfolk
  AIMD NAS Corpus Christi
  NADEP JAX Det Norfolk
  NAWCAD LKE Det Norfolk
Site Pax River
Site New Orleans
  AIMD Atlanta
  NAS JRB New Orleans
Site NAF Washington
  AIMD NAF Washington

FRC WEST
LEMOORE
AIMD Lemoore
NADEP NI Det Lemoore
Site Fallon
  NADEP NI Det Fallon
Site Forth Worth
  AIMD Atlanta
  NAS JRB Fort Worth
Site China Lake
  AIMD China Lake

FRC West Pac
ATSUGI, JAPAN

FRC SOUTHWEST
NORTH ISLAND
AIMD North Island
NADEP North Island
NADEP NI Det NI
Site Miramar
  MALS-11 & 16
Site Point Mugu
  AIMD Point Mugu
Site Pendleton
  MALS-39
  NADEP NI Det Pendleton
Site Yuma
  MALS-13
  NADEP NI Det Yuma

FRC SOUTHEAST
JACKSONVILLE
NADEP JAX
NADEP JAX Det Cecil Field
AIMD JAX
AIMD Brunswick
Site Mayport
  AIMD Mayport
  NADEP JAX Det Mayport
  NAWCAD LKE Det Mayport
Site Key West
  AIMD Key West

FRC EAST
CHERRY POINT
NADEP Cherry Point
MALS-14 Cherry Point
Site New River
  MALS-26 & 29 New River
  NADEP CP Det New River
Site Beaufort
  MALS-31 Beaufort
  NADEP JAX Det Beaufort
Site Quantico
  HMX-1 Quantico
Site Robins AFB
  MALS-42 AIMD Atlanta
Site McGuire AFB
  AIMD Willow Grove
Site Stewart ANGB
  MALS-49

* Sites in red indicate closing activities

Many Opportunities for Legacy Marking!

Level 3 (Depot) Airframes

IMC, SLEP, CBR, Rewire, Crash/battle damage repair, Mods, ISR*

* In-Service Repairs - 7/24 worldwide ashore and afloat

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Adj PLAN	32	73	119	167	208	245	301	339	368	412	456	494
ACTUAL	36	78	116	172	206	246	294	339	366	414	458	512

Source: PSR/Open
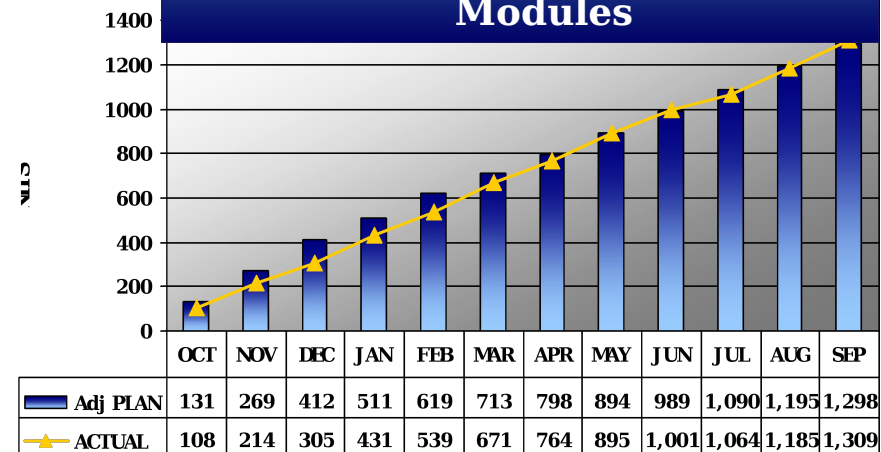
Level 3 (Depot) Components

NAVICP, PBL, DMISA, FMS

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PLAN	7,430	14,862	22,295	29,728	37,161	44,595	52,032	59,473	66,916	74,361	81,806	89,253
ACTUAL	6,840	13,781	20,495	27,746	35,832	44,276	51,380	58,790	67,051	74,072	80,510	89,167
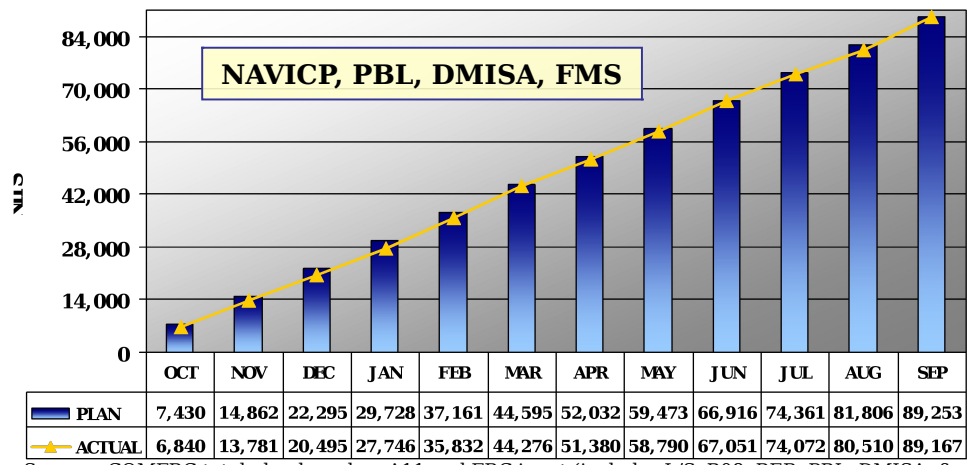
Source: COMFRC total plan based on A11 and FRC input (includes L/S, B08, BER, PBL, DMISA, & FMS).

Actuals derived from Corporate Metrics

Level 3 (Depot) Engines & Modules

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Adj PLAN	131	269	412	511	619	713	798	894	989	1,090	1,195	1,298
ACTUAL	108	214	305	431	539	671	764	895	1,001	1,064	1,185	1,309

Level 2 (Intermediate) Production

- 6,000 Engine, Module & accessory repairs per year
- 580,000 airframe & avionics component repairs per year
- Ground Support Equipment for squadrons & air stations

FRC IUID Stand-up

- **Supports OSD emphasis for IUID-based nameplate capability at depots**

- **FRC East; UID marking and registration of APUs with a UID Registry interface, commencing H-1 IUID items**

- **FRC Southeast & FRC Support Equipment; UID marking and asset management of plant property**

- **FY09/10 deployment of marking carts to FRCs**

Investing in skill sets and infrastructure.

IUID Marking Capability

- **Metal & adhesive labels with verification**

- **Generates data files for UID Registry submission**

- **Outfitting:**
  - **FRC East - Complete**
  - **FRC Southeast - Complete**
  - **FRC Southwest – Aug 2009**
  - **FRC Support Equipment – Q1 FY10**

Site IOC for select product lines

FRC Approach to Tech Data

- **LES/LPS used in lieu of individual drawing changes**

- **Platform-specific LES/LPS developed by ISSC**

- **Suite of LES/LPS reflect appropriate marking methods**

- **A single LES/LPS may link to multiple drawings**

- **LES/LPS provides detailed IUID marking procedures**

Implementation with lower cost

Sample LES/LPS Content

- **Denotes maintenance work order event**

- **Specifies special tools and media**

- **Cites associated drawings, part numbers & rework procedures**

- **Provides inspection criteria**

- **Defines mark creation & placement**

- **Provisions for verification & registration**

LES/LPS Substitutes for Multiple Drawing Changes

… collaborate with the Engineering Staff and Field Support teams for IUID requirements, planning & strategy

… identify which parts are to be marked

… determine the schedule for commencing parts marking of your platform

"Depot maintenance is a "marking trigger" for IUID, but you're the "demand trigger!"